

Special Health Information

Some people may be more vulnerable to contaminants in drinking water than the general population. Immunocompromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. EPA/CDC guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbial contaminants are available from the Safe Drinking Water Hotline (1-800-426-4791).

We Take Your Water Seriously... Water is Life!



Safe drinking water is an essential and precious resource. Did you know that water helps one maintain healthy body weight by increasing metabolism and regulating appetites? Water also helps to flush toxins out of your body and helps to regulate the temperature of the human body and alleviate daytime fatigue, headaches, and joint pain. Water is essential to our survival. Water is Life!

As a Division of the City of Longview's Public Works Department, the primary goal and responsibility of the Water Supply and Purification Division is to provide you with safe and reliable potable drinking water. The City of Longview is committed to maintaining an adequate raw water supply and for produc-

ing potable water at sufficient pressure, volume and quality for our customers. We strive to continuously improve the service to the community and wholesale customers by monitoring the watershed and our water treatment plants and distribution system to ensure that they meet local, state and federal regulations. We also strive to meet the demands of our community and maintain fire protection by operating and maintaining our facilities, booster stations, valves, and elevated storage towers throughout the City.

The City of Longview Public Water Supply employees are proud of the role they play in protecting public health and providing safe and potable water to the City of Longview. The licensed water professionals of the City of Longview are committed to providing quality, innovative services that set the standard for professionalism and excellence. We continually strive to adopt new and better methods of delivering the best quality drinking water to you. As new challenges to drinking water safety emerge, we will be vigilant in maintaining our objective of providing quality drinking water at an affordable price.

It is important to us that you have information about your drinking water so you can have confidence in the product we deliver. This report provides you with information about the quality and sources of the drinking water you received in 2014. As you read this report, you will learn that the water delivered to your tap meets or exceeds all state and federal water quality standards. We hope that you will find it useful and reassuring that your water is safe to drink.

If you have any health concerns related to the information in this report, we encourage you to contact your health care provider. For more information about this report, or for any questions relating to your drinking water, please call the Water Purification Division at 903-237-2780.

Substances Expected in Drinking Water

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals and can pick up substances resulting from the presence of animals or from human activity. Substances that may be present in source water include:

- Microbial contaminants: such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations and wildlife.
 - Inorganic contaminants: such as salts and metals, which can be naturally-occurring or result from urban storm runoff, industrial, or domestic wastewater discharges, oil and gas production, mining or farming.
- Pesticides and herbicides: which may come from a variety of sources such as agriculture, urban stormwater runoff and residential uses.
- Organic chemical contaminants: including synthetic and volatile organic chemicals, which are byproducts of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, and septic systems.
- Radioactive contaminants: which can be naturally-occurring or be the result of oil and gas production and mining.

In order to ensure that tap water is safe to drink, the Environmental Protection Agency (EPA) prescribes regulations that limit the amount of certain contaminants in water provided by public water systems.

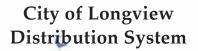
The Food and Drug Administration (FDA) regulations establish limits for contaminants in bottled water that must provide the same protection for public health.

Contaminants may be found in drinking water that may cause taste, color, or odor problems. These types of problems are not necessarily causes for health concerns. For more information on taste, odor, or color of drinking water, please contact the system's business office. Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the EPA's Safe Drinking Water Hotline at 800-426-4791.

Longview's Sources of Drinking Water

Longview uses surface water from three sources: Lake

Cherokee, Sabine River, and Lake O' the Pines. A source water assessment has been completed by the Texas Commission on Environmental Quality (TCEQ) for all three water sources and the report is available to review by calling us at 903-291-5234 or 903-237-2780. It allows us to focus on our source water protection activities. The results indicate that some of our sources are susceptible to certain contaminants. The sampling requirements for your water system are based on this susceptibility and previous sample data. For more information on source water assessments and protection efforts at our system contact us at 903-291-5234. To monitor water quality in local rivers, streams, and reservoirs, the City of Longview has a Watershed Management Program. We work closely with the Sabine River Authority, Cherokee Water Company, Northeast Texas Municipal Water District, Texas Railroad Commission, Texas Commission on Environmental Quality (TCEQ), Texas Parks and Wildlife Commission, American Water Works Association, Texas Water Utilities Association and local industries to monitor and maintain a high level of water quality.



Under normal operating conditions, the Cherokee, Sabine River, and Lake O' the Pines
Water Treatment Plants treat and distribute water to elevated and ground storage tanks with the capacity of approximately 6 million gallons of water throughout the city in over 600

miles of pipeline. The east and southeast regions of Longview typically receive water from the Cherokee Water Treatment Plant. The west and southwest regions of Longview receives water from the Sabine River Water Treatment Plant. The north region receives water from the Lake O' the Pines Water Treatment Plant. Due to changes in demand and normal or emergency maintenance requirements, the typical distribution of water may change and residents may receive water from any of the water treatment plants.

The City of Longview did not experience any water shortages or implement any conservation plans during 2014.

In the water loss audit, submitted to the Texas Water Development Board for the time period of January 2014 to December 2014, our system lost an estimated 84,991,298 gallons of water. While this is less than 5% of our water pumped, this includes any water line breaks or flushing water lines. If you have any questions about the water loss audit, please call the Water Supply and Purification Division at 903-237-2780.

Storm Water Pollution Prevention Program

Watersheds may be susceptible to contamination resulting from flood, erosion, and pollution; also referred to as storm water runoff. The City of Longview has incorporated a program to help manage storm water pollution. Storm water pollution is being reduced from the monitoring / and modification of the City's operations through good municipal housekeeping. Our program also works to control construction runoff resulting in less sediment, the number one pollutant in our watersheds. Finally, one of the most important parts of this program is the education and involvement of the public and citizens of Longview regarding watersheds and storm water pollution.

The Following Guidelines May Help Prevent Storm Water Pollution:

- Use fertilizers sparingly
- Sweep up driveways, sidewalks, and gutters
- Never dump, blow, sweep, or wash anything down storm drains
- Don't leave bare spots in your yard
- Compost wastes
- Use less toxic pesticides, follow labels, and learn how to prevent pest problems
- Direct downspouts away from paved surfaces; consider a rain garden to capture runoff
- Take your car to the car wash instead of washing it in the driveway
- Check your car for leaks and recycle your motor oil
- Pick up after your pet

For more information, please feel free to contact the Streets and Drainage Division of the City of Longview's Public Works Department at 903-237-1240.

Table Definitions

Maximum Contaminant Level Goal (MCLG) – The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety. Maximum Contaminant Level (MCL) – The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.

Maximum residual disinfectant level goal (MRDLG) – The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.

Maximum residual disinfectant level (MRDL) – The highest level of a disinfectant allowed in drinking water. This is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.

Treatment Technique (TT) – A required process intended to reduce the level of a contaminant in drinking water.

Action Level (AL) – The concentration of a contaminant which, if exceeded, triggers a treatment or other requirement which a water system must follow.

mrem/year – millirems per year (a measure of radiation absorbed by the body).

pCi/L - picocuries per liter (a measure of radioactivity).

NTU – Nephelometric turbidity units (a measure of turbidity). ppm – Parts per million, or milligrams per liter (mg/l).

ppb – Parts per billion, or micrograms per liter (ug/1).

NA Not applicable

NA – Not applicable.

ND – Not detectable at testing limits.

REGULATED SUBSTANCES AT THE TREATMENT PLANTS

Year	Constituent	Average	Detected Range	MCL	MCLG
2014	Chloramines (ppm)	1.46	1.18 – 1.80	4	4
	Disinfe	ctant used to	control microbes.		
2014	Chlorite (ppm)	0.143	0.02 - 0.28	1	0.8
	By-produ	ct of drinking	water disinfection.		
2014	Barium (ppm)	0.054	0.043 - 0.059	2	2
	0	ng wastes; Dis osion of natu	scharge from metal re ral deposits.	fineries;	
2014	Fluoride (ppm)	0.60	0.48 - 0.69	4	4
	Erosion of natural depos	its; Water add	litive which promotes	s strong teet	h.
2014	Nitrate (ppm)	0.18	0.04 - 0.26	10	10
Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.					
2011	Gross Beta particles & Photon emitters (pCi/L)	1.37	0.0 – 4.1	50	NA
Decay	of natural and man-mad may emit forms of rad				

REGULATED SUBSTANCES AT THE TREATMENT PLANTS

Year	Constituent	Average	Detected Range	MCL	MCLG
2014	Total Organic Carbon (ppm) – Source Water	7.25	4.48 – 10.3	NA	NA
	Natura	lly present in	the environment.		
2014	Total Organic Carbon Drinking Water	3.89	2.97 - 5.41	NA	NA
	Natura	lly present in	the environment.		
2014	Total Organic Carbon % Removal	44.7	22.27 – 66.37	NA	NA

The TOC removal ratio is the percent of TOC removed through the treatment process divided by the percent of TOC required by the TCEQ to be removed. The City of Longview water system provides the alternative compliance criteria removal ratio required.

Total Organic Carbon (TOC) has no adverse health effects. The disinfectant can combine with TOC to form disinfection by-products. Disinfection is necessary to ensure that water does not have unacceptable levels of pathogens. Total organic carbon provides a medium for the formation of disinfection by-products when water is disinfected. By-products of disinfection include trihalomethanes (THMs) and haloacetic acids (HAA) which are reported elsewhere in this report.

REGULATED AT THE TREATMENT PLANTS

Year	Constituent	Highest Single Measurement	Lowest Monthly % of Samples Meeting Limits	Turbidity Limits
2014	Turbidity (NTU)	0.26	100	0.3
Soil runoff				

Turbidity has no health effects. However, turbidity can interfere with disinfection and provide a medium for microbial growth. Turbidity is measured in Nephelometric Turbidity Units (NTU) and is a measurement of water clarity. This water quality parameter is monitored as a treatment technique (TT).

REGULATED SUBSTANCES AT THE CUSTOMER'S TAP

Year	Constituent	The 90th Percentile	# of Sites Exceeding Action Level	Action Level	
2012	Lead (ppb)	0.00082	0	15	
Corrosion of household plumbing systems; Erosion of natural deposits.					
2012	Copper (ppm)	0.025	0	1.3	
Corrosion of household plumbing systems; Erosion of natural deposits;					
Leaching from wood preservatives.					

The City of Longview is on a reduced sampling schedule for lead and copper, due to an excellent compliance history. The results listed above are distribution samples taken from the customers' tap. Lead and copper has not been detected in water leaving the water treatment facilities. The source of lead and copper is corrosion of household plumbing systems.

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. This water supply is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or

at http://www.epa.gov/safewater/lead.

REGULATED AT THE CUSTOMER'S TAP

Coliforms are bacteria that are naturally present in the environment and are used as an indicator that other, potentially harmful bacteria may be present. Longview analyzes over 984 samples All samples taken were negative and did not indicate the presence of coliform bacteria.

UNREGULATED SUBSTANCES AT THE TREATMENT PLANTS

Year	Constituent	Average	Range
2014	Chloroform (ppb)	72.23	19.4 – 146.0
2014	Dichlorobromomethane (ppb)	24.00	21.1 – 26.3
2014	Dibromochloromethane (ppb)	14.82	8.65 – 27.0
2014	Bromoform (ppb)	9.09	ND - 9.09
2014	Acetone (ppb)	8.43	ND - 8.43

Bromoform, chloroform, dichlorobromomethane, dibromochloromethane and acetone are disinfection by-products. There is no maximum contaminant level for these chemicals at the entry point to distribution.

UNREGULATED SUBSTANCES AT THE TREATMENT PLANTS AND IN THE DISTRIBUTION SYSTEM

Unregulated Contaminant Monitoring Regulation Second Cycle

Year	Constituent	Average	Range		
2014	Hexavalent Chromium (ppb)	0.35	0.07 - 0.68		
N	laturally occurring element; used in mak	sing steel and other a	lloys		
2014	Chlorate (ppb)	47.63	20 – 99		
Agricultural defoliant or desiccant; disinfection byproduct; used in the production of chlorine dioxide					
2014	Chromium (ppb)	0.55	0.23 - 0.78		
N	laturally occurring element; used in mak	sing steel and other a	lloys		
2014	Strontium (ppb)	139	110 – 210		
Naturally occurring element; historically, commercial use of strontium has been in faceplate glass of cathode-ray tube televisions to block x-ray emissions					
2014	Vanadium (ppb)	1.28	0.66 - 1.8		
Naturally occurring elemental metal; used as vanadium pentoxide					

which is a chemical intermediate and a catalyst

Unregulated Contaminants are those for which the EPA has not established drinking water standards. The purpose of unregulated contaminant monitoring is to assist the EPA in determining the occurrence of unregulated contaminants in drinking water and whether future regulation is warranted.

UNREGULATED SUBSTANCES IN THE WATER SYSTEM

Stage 2 Disinfection By-Products System-wide Results

Year	Constituent	Average	Range	
2014	Total Trihalomethanes (ppb)	61.3	11.9 – 111.3	
By-product of drinking water chlorination.				
2014	Total Haloacetic acids (ppb)	20.8	15.9 – 35.7	
By-product of drinking water chlorination.				

REGULATED SUBSTANCES IN THE DISTRIBUTION SYSTEM

Stage 2 Disinfection By-Products Locational Running Annual Averages

Year	Constituent	Location	Highest	Range	MCL
			LRAA		
2014	Total Trihalomethanes	#1	63.13	40.12 - 94.70	80
2014	(ppb)	#2	65.35	42.38 - 111.30	80
2014		#3	61.63	44.02 - 84.40	80
2014	By-product of	#4	65.93	46.02 - 97.70	80
2014	drinking water	#5	64.32	47.08 - 81.20	80
2014	chlorination.	#6	70.99	55.37 - 87.10	80
2014		#7	55.90	35.40 - 81.20	80
2014		#8	64.83	11.90 - 79.90	80

Some people who drink water containing trihalomethanes in excess of the MCL over many years may experience problems with their liver, kidneys, or central nervous systems, and may have an increased risk of getting cancer.

Year	Constituent	Location	Highest LRAA	Range	MCL
2014	Total Haloacetic	#1	22.25	16.0 - 35.7	60
2014	Acids (ppb)	#2	22.38	17.1 – 35.5	60
2014		#3	21.20	17.7 – 21.1	60
2014	By-product of	#4	22.93	15.9 - 24.4	60
2014	drinking water	#5	22.55	18.1 – 21.9	60
2014	chlorination.	#6	26.35	16.5 – 22.9	60
2014		#7	19.33	16.6 - 22.6	60
2014		#8	25.10	20.1 – 27.3	60

Some people who drink water containing haloacetic acids in excess of the MCL over many years may have an increased risk of getting cancer.

ADDITIONAL PARAMETERS TESTED IN YOUR WATER SYSTEM

This chart lists other items for which the water is tested. These items do not relate to public health but rather to the aesthetic quality. These parameters are often important to industrial water users or customers with special needs.

Constituent	Units of measure	Longview water
Aluminum	ppm	0.18 - 0.38
Manganese	ppm	0.00106 - 0.00230
Nickel	ppm	0.00121 - 0.00193
Copper	ppm	0.0007 - 0.00159
Chloride	ppm	14.5 – 41.2
Sulfate	ppm	40.7 - 56.2
pН	pH units	8.8 – 9.4
Conductivity	μmhos/cm	222 - 300
Total Alkalinity as CaCO3	ppm	13.5 – 33.7
Bicarbonate	ppm	13.5 – 33.7
Dissolved solids	ppm	134 - 176
Calcium	ppm	17 - 22
Magnesium	ppm	3.79 – 5.4
Potassium	ppm	2.95 - 5.76
Cyanide	ppm	0.0144 - 0.0508
Sodium	ppm	15.1 – 26.2
Total Hardness as CaCO3	ppm	58.1 – 73.5
Total Hardness in Grains	Grains/gallon	3.39 – 4.29

Backflow Prevention

The protection of the public water supply in the City of Longview is a matter of great concern and benefit to the community. As the water supplier, the City of Longview has the responsibility to prevent contamination of our public water system from backflow and cross-connections. In the exercise of this duty, we must take reasonable precautions to protect the water distribution system from the hazards that could possibly originate on the premises of our customers.

State regulations require the City of Longview to maintain a Backflow Prevention Program to track the installation and annual testing of backflow prevention assemblies on all actual or potential hazardous cross-connections (potential points of contamination). This applies to all commercial/industrial, large multi-family, and some smaller multi-family customers connected to the City's water supply. Properly working backflow prevention assemblies keep your drinking water clean and safe. For more information, please contact us at 903-237-2780.

No water connection from any public drinking water supply system shall be allowed to any residence or establishment where an actual or potential contamination hazard exists unless the public water facilities are protected from contamination. All connections made to the drinking water supply must be made in a manner that cannot contaminate the water supply. When a connection is made, an approved backflow prevention device must be installed to prevent contamination from non-potable liquids, solids, or gases. Examples of backflow and cross connection issues include, but are not limited to, condensing and cooling processes, boilers, industrial processes, wash sinks, carbonated drink dispensing machines, and irrigation systems. The City of Longview's Cross Connection Control and Backflow Prevention Program is in place to protect your drinking water supply and your health. If you have questions regarding plumbing codes and / or if your property requires a backflow prevention device, please contact the Building Inspections Department at 903-237-1074. If you have questions regarding test reporting procedures or to request a list of approved testers, please contact BSI Online at 1-800-414-4990. Any other questions regarding the Cross Connection Control and Backflow Prevention Program, please contact the Water Purification Division at 903-237-2780.

Frequently Asked Questions About Your Water

 If my water tastes or smells different, is it still safe to drink?

All water has its own unique taste and odor characteristics. Contaminants may be found in drinking water that can cause taste, color or odor problems. These types of problems are not necessarily causes for health concerns. The City of Longview, like many other water suppliers, occasionally experiences changes in taste and odor. Algae and bacteria naturally found in surface waters can produce different types of tastes and odors. Geosmin and 2-Methylisoborneol (MIB) have been identified as odor-causing compounds and are detectable at levels as low as five parts per trillion (ppt or nanograms per liter). When conditions are favorable (changes in temperature,

excessive rainfall, flooding, drought, or dry weather conditions), the bacteria and certain blue-green algae produce a musty or earthy taste and odor. Although these contaminants impart an unpleasant taste and odor, they do not have an established Maximum Contaminant Level (MCL) nor pose any known health risks. Water that has been stored in a pipe for a long time, especially during warm weather, also may develop an odor. That explains why you may notice a change in your water after returning from vacation.

- What is the hardness of the water?
- Water supplied to you is considered soft to moderately hard in the Lake O' the Pines service area and moderately hard in the Lake Cherokee and Sabine River service areas. What makes water hard is a combination of minerals that are present in nearly all natural waters. The average hardness for water in 2014 from Lake Cherokee is 73.8 mg/L (4.3 grains/gallon), Lake O' the Pines is 72.8 mg/L (4.3 grains/gallon), and Sabine is 90 mg/L (5.3 grains/gallon).
- Why does my water appear cloudy or milky at times? Cloudy water is often caused by dissolved oxygen being released from the water. Cold water can hold more oxygen than warm water. Water saturated with oxygen will release oxygen as it warms or as the pressure is released. This release makes the water appear milky or cloudy, but it does not affect the safety of the water. The cloudiness usually will disappear in about 30 seconds.
- Why does my water sometimes look brown or red? Often your water is discolored because of pipeline breaks and repairs. The color comes from iron or mineral deposits inside the pipe that become dislodged during the repairs. If the color is due to line breaks, run the faucet until the water is clear. If the water does not clear within several minutes, call the water and sewer emergency line at 903-236-3030 for assistance.
- What is the white build-up on my faucet strainers? The white build-up is calcium carbonate. Lime is added to the water to adjust the pH to provide a stable water to prevent premature corrosion of the distribution system. This calcium carbonate product places a protective film that coats the inside of the water pipes much like the paint on your car or house protects the metal or wood. When there is a change in flow or the water usage increases in

the pipeline, calcium carbonate build-up may break off and enter the water stream. Calcium carbonate may accumulate in the water heater or sink faucet strainers. To alleviate this problem, you can flush the lower drain system on your water heater or rinse off the deposits on the sink faucet strainer.

Water Security: Water You Save Might Just Be Your Own

Water Security is a shared responsibility involving water suppliers, wastewater utilities, government, law enforcement and citizens. We can all be involved in homeland security by playing an important role in protecting our critical water resources. Local drinking water and wastewater systems may be targets for terrorist and other would be criminals wishing to disrupt and cause harm to your community water supplies or wastewater facilities. Water utilities are often located in isolated areas. Drinking water sources and wastewater collection systems may cover large areas that are difficult to secure and patrol. Residents can be educated to notice and report any suspicious activity in and around local water utilities. Interested and dedicated citizens are essential to increase the security eyes and ears in your community.

Residents can communicate regularly with law enforcement, your public water supplier and wastewater operator. Communication is the key to a safer community! Be alert! Become aware of your surroundings.

When reporting an incident:

- Call the Water & Sewer Emergency Line at 903-236-3030
- State the nature of the incident
- Identify yourself and your location
- Identify location of activity
- Describe any vehicle involved (color, make, model, license plate #)
- Describe the participants (how many, sex, race, color of hair, height, weight, clothing)

For more information on water security visit: www.epa.gov/safewater/security

Longview Continues to Improve Your Water Quality and Service

Drinking water standards continue to tighten, and our challenge is to meet these stricter regulations. This means we must continue to update the treatment technology used at our water plants. As the City of Longview continues to grow and look toward the future, we continue to improve ourselves and the quality of the water that is sent to you and how it travels to your home or business. The City of Longview's Public Water system is widely recognized as a leader in the municipal utility industry and has made a measurable improvement to customer service.

Thirsty for more information about your water?

The City

•	Billing questions:	903-237-1036	Council
•	Questions about the quality of your drinking water:	903-237-2780	meets every 2nd and 4th
•	Water and sewer emergency, service interruptions:	903-236-3030	Thursday of each month.
•	To report water security issues:	903-236-3030	903-237-1080 or check
•	For Backflow Prevention questions:	903-237-2787	our website for more
•	Water conservation or to request a speaker:	903-237-1034	information.
•	Source Water Assessment Questions:	903-291-5234	
•	Storm Water Runoff and		

www.LongviewTexas.gov

To report water pollution:

Pollution Management:

The Longview City Hall is located at 300 W. Cotton St. Offices are open from 8 a.m. to 5 p.m.

You can also find us on the internet

903-237-1240

903-291-5234

Este reporte incluye informacion importante sobre el agua para tomar. Para asistancia en espanol, favor de llamar al telefono 903-237-1214, 903-237-1060, o 903-237-1199.